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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : K. TSUGANEZAWA

Art Unit: UNKNOWN

Appl. No. : 09/744,989

Examiner: UNKNOWN

I. A. Filed : August 20, 1999

For : EPIMORPHIN OF THE ORDER ARTIODACTYLA

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### INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents and Trademarks  
Washington, DC 20231

Sir:

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Pursuant to the duty of disclosure set forth in 37 CFR 1.56 and in accordance with the provisions of 37 CFR 1.97 and 1.98, the following information is brought to the attention of the Examiner, which information was cited in an International Search Report (filed with the application in English and Japanese) and an International Preliminary Examination Report (filed with the application in Japanese and submitted herewith in English) issued in connection with International Application No. PCT/JP99/04479. The Examiner is referred to the International Search Report and the International Preliminary Examination Report for an indication of the relevance given by the International Examiner to the cited documents relative to the claims of the International application.

JP 6-25295 A

JP 9-65885 A, accompanied by a Patent Abstracts of Japan

JP 8-325293 A

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Further, the following documents, which are family members of documents cited in the International Search Report, are brought to the attention of the Examiner:

U.S. Patent No. 5,726,298 to HIRAI et al., which is listed in the International Search Report as being a family member of JP 6-25295;

U.S. Patent No. 6,127,149 to HIRAI et al., which is a family member of JP 8-325293; and  
CA 2,152,210, which is listed in the International Search Report as being a family member of JP 8-325293.

Further, the following information which is cited in the application is brought to attention of Examiner:

HIRAI et al., "Epimorphin: A Mesenchymal Protein Essential for Epithelial Morphogenesis", Cell, Vol. 69, pp. 471-481 (1992) is cited and discussed in the specification beginning at page 1.

GUMBINER, "Epithelial Morphogenesis", Cell, Vol. 69, pp. 385-387 (1992) is cited and discussed in the specification beginning at page 1.

ZHA et al., "The Epimorphin Gene is Highly Conserved among Humans, Mice, and Rats and Maps to Human Chromosome 7, Mouse Chromosome 5, and Rat Chromosome 12", Genomics, 37, pp. 386-389 (1996) is cited and discussed in the specification beginning at page 1.

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HIRAI, "Molecular Cloning of Human Epimorphin: Identification of Isoforms and Their Unique Properties", Biochemical Biophysical Research Communications, Vol. 191, No. 3, pp. 1332-1337 (1993) is cited and discussed in the specification beginning at page 1.

OKA et al., SDB Meeting Abstract (B216) of 13th International Congress of Developmental Biology 56th SDB Annual Meeting, Developmental Biology Vol. 186 (1997) is cited and discussed in the specification beginning at page 1.

KOSHIDA et al., "Identification of Cellular Recognition Sequence of Epimorphin and Critical Role of Cell/Epimorphin Interaction in Lung Branching Morphogenesis", Biochemical and Biophysical Research Communications, Vol. 234, No. 2, pp. 522-525 (1997) is cited and discussed in the specification beginning at page 1.

OKA et al., "Inductive Influences of Epimorphin on Endothelial Cells in Vitro", Experimental Cell Research, 222, pp. 189-198 (1996) is cited and discussed in the specification beginning at page 1.

HIRAI et al., "Epimorphin Functions as a Key Morphoregulator for Mammary Epithelial Cells", The Journal of Cell Biology, Vol. 140, pp. 159-169 (1998) is cited and discussed in the specification beginning at page 1.

PANARETTO, "Gene Expression of Potential Morphogens during Hair Follicle and Tooth Formation: a Review"; Reprod. Fertil. Dev., pp. 345-360 (1993) is cited and discussed in the specification beginning at page 1.

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MATSUKI et al., "Gene Expression of Epimorphin in Rat Incisor Ameloblasts", Archs Oral Biol. Vol. 40, No. 2, pp. 161-164 (1995) is cited and discussed in the specification beginning at page 1.

Copies of the above-noted documents are enclosed. Each document is listed on the attached PTO-1449 form to permit the Examiner to indicate consideration thereof.

The Examiner is respectfully requested to consider the documents cited above and to confirm such consideration by initialling in the appropriate spaces on the PTO-1449 form and returning a copy of the initialled form to Applicants. It is also requested that these documents be identified in the list of references cited on the patent issuing for this application.

Applicant notes that an Office Action on the Merits has not issued in the instant application. However, if an Office Action on the Merits has issued, and is crossing this statement in the mail, the undersigned hereby authorizes the Commissioner to charge any fee necessary for consideration of this statement, including any payment under 37 C.F.R. 1.17(p), to be charged to Applicant's Deposit Account No. 19-0089.

The disclosure of the above documents does not constitute an admission that any particular document is relevant or material to the claims, or is prior analogous art with respect to the present application. The citation of these documents is not to be construed as a representation that no better art exists, or that a search has been made.

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Any comments or questions concerning this application can be directed to the undersigned  
at the telephone number given below.

June 12, 2001  
GREENBLUM & BERNSTEIN, P.L.C.  
1941 Roland Clarke Place  
Reston, VA 20191  
(703) 716-1191

Respectfully Submitted,  
K. TSUGANEZAWA

*Steven J. Helmer*  
*Reg. No. 40,475*  
Bruce H. Bernstein  
Reg. No. 29,027

Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
P20637Serial No.  
09/744,989**RECEIVED**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(Use several sheets if necessary)

Applicant  
K TSUGANEZAWA

MAY 30 2002

Filing Date  
August 20, 1999Group  
Unknown

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 7 2 6 2 9 8	03/10/98	HIRAI et al.			
	6 1 2 7 1 4 9	10/03/00	HIRAI et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
6 - 2 5 2 9 5	02/01/94	JAPAN			
9 - 6 5 8 8 5	03/11/97	JAPAN			
8 - 3 2 5 2 9 3	12/10/96	JAPAN			
2 1 5 2 2 1 0	12/22/95	CANADA			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	Patent Abstracts of Japan for JP 9-65885.
3	HIRAI et al., "Epimorphin: A Mesenchymal Protein Essential for Epithelial Morphogenesis", <u>Cell</u> , Vol. 69, pp. 471-481 (1992).
4	GUMBINER, "Epithelial Morphogenesis", <u>Cell</u> , Vol. 69, pp. 385-387 (1992).
5	ZHA et al., "The Epimorphin Gene is Highly Conserved among Humans, Mice, and Rats and Maps to Human Chromosome 7, Mouse Chromosome 5, and Rat Chromosome 12", <u>Genomics</u> , 37, pp. 386-389 (1996).
6	HIRAI, "Molecular Cloning of Human Epimorphin: Identification of Isoforms and Their Unique Properties", <u>Biochemical Biophysical Research Communications</u> , Vol. 191, No. 3, pp. 1332-1337 (1993).
7	OKA et al., SDB Meeting Abstract (B216) of 13th International Congress of Developmental Biology 56th SDB Annual Meeting, <u>Developmental Biology</u> Vol. 186 (1997).
8	KOSHIDA et al., "Identification of Cellular Recognition Sequence of Epimorphin and Critical Role of Cell/Epimorphin Interaction in Lung Branching Morphogenesis", <u>Biochemical and Biophysical Research Communications</u> , Vol. 234, No. 2, pp. 522-525 (1997).
9	OKA et al., "Inductive Influences of Epimorphin on Endothelial Cells in Vitro", <u>Experimental Cell Research</u> , 222, pp. 189-198 (1996).

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
P20637Serial No.  
09/744,989INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(Use several sheets if necessary)

Applicant  
K TSUGANEZAWAFiling Date  
February 16, 2001Group  
Unknown

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	0	HIRAI et al., "Epimorphin Functions as a Key Morphoregulator for Mammary Epithelial Cells", <u>The Journal of Cell Biology</u> , Vol. 140, pp. 159-169 (1998).
1	1	PANARETTO, "Gene Expression of Potential Morphogens during Hair Follicle and Tooth Formation: a Review"; <u>Reprod. Fertil. Dev.</u> , pp. 345-360 (1993).
1	2	MATSUKI et al., "Gene Expression of Epimorphin in Rat Incisor Ameloblasts", <u>Archs Oral Biol.</u> , Vol. 40, No. 2, pp. 161-164 (1995).

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